

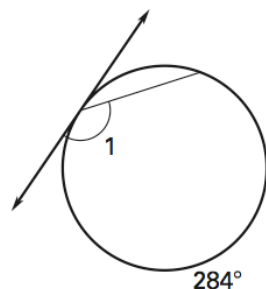
Geometry: 10.4 Assignment

Other Angle Relationships in a Circle (pp 621-627)

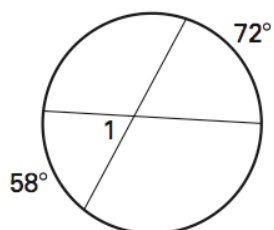
1. What is your name?

For problems 2-7, find $m\angle 1$.

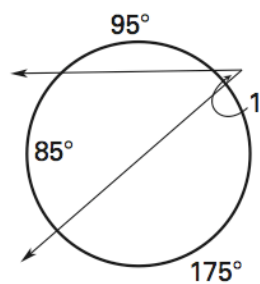
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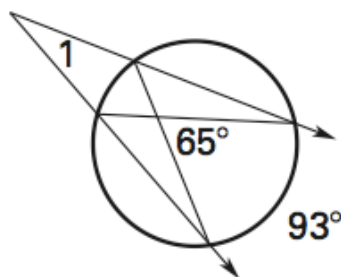
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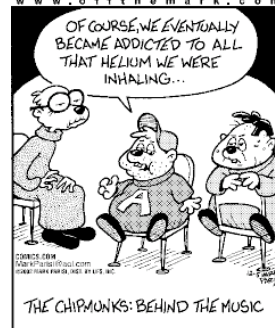
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5.



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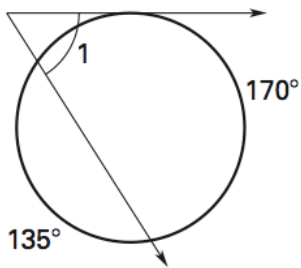
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Geometry: 10.4 Assignment

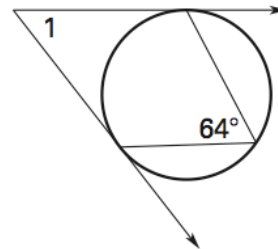
Other Angle Relationships in a Circle (pp 621-627)

For problems 2-7, find $m\angle 1$.

6.

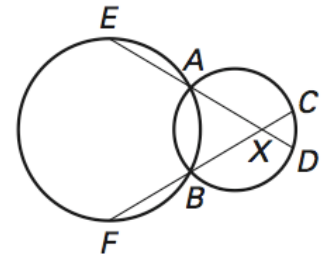


7.

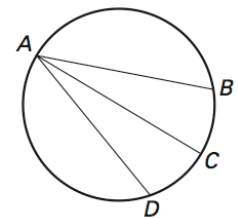


8. The two circles intersect at A and B; $m\angle AXB = 70^\circ$, $m\widehat{CD} = 20^\circ$, $m\widehat{EF} = 160^\circ$.

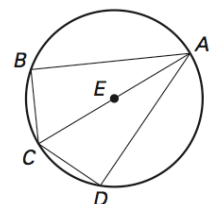
What is the difference between the measures of \widehat{AB} of the smaller circle and \widehat{AB} of the larger circle?



9. If C is the midpoint of \widehat{BD} . Explain how you know that \overline{AC} bisects $\angle BAD$.



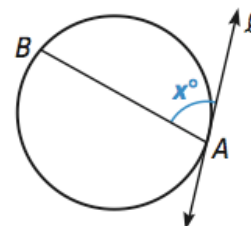
10. In $\odot E$, $\overline{BC} \cong \overline{CD}$, explain why $\triangle ABC \cong \triangle ADC$



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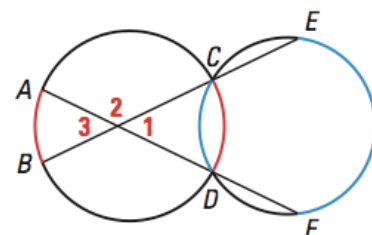
11. _____ The diagram is *not* drawn to scale. \overline{AB} is any chord of the circle. The line is tangent to the circle at point A. Which of the following must be true?



- A) $x < 90^\circ$
 B) $x \leq 90^\circ$
 C) $x = 90^\circ$
 D) $x > 90^\circ$
 E) Cannot be determined from the given information.

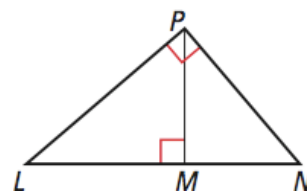
12. _____ Which relationship is **not** true?

- A) $m\angle 1 = \frac{1}{2}(m\widehat{CD} + m\widehat{AB})$
 B) $m\angle 1 = \frac{1}{2}(m\widehat{EF} - m\widehat{CD})$
 C) $m\angle 2 = \frac{1}{2}(m\widehat{BD} - m\widehat{AC})$
 D) $m\angle 3 = \frac{1}{2}(m\widehat{EF} - m\widehat{CD})$



Review

13. If $MN = 9$, $PM = 12$, find LP .



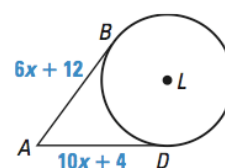
12. If $LM = 4$, $LN = 9$, find LP .

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13. You are 10 feet from a circular storage tank. You are 22 feet from a point of tangency on the tank. Find the tank's radius.

14. \overline{AB} & \overline{AD} are tangent at $\odot L$. Find the value of x .



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